



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Admistrative COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

B

APPLICATION NO.	FILED DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/924,679	08/09/2001	Nagayuki Takao	0153-0574P-SP	2364
2292	7590	08/27/2004		EXAMINER
BIRCH STEWART KOLASCH & BIRCH			SHOSHO, CALLIE E.	
PO BOX 747			ART UNIT	PAPER NUMBER
FALLS CHURCH, VA 22040-0747			1714	

DATE MAILED: 01/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action	Application No.	Applicant(s)
	09/924,679	TAKAO ET AL
Examiner	Art Unit	
Callie E. Shosho	1714	

—The MAILING DATE of this communication appears on the cover sheet with the correspondence address—

THE REPLY FILED 09 January 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

a) The period for reply expires ____ months from the mailing date of the final rejection.
 b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any extension patent term adjustment. See 37 CFR 1.704(b).

1 A Notice of Appeal was filed on 15 December 2003. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
 2 The proposed amendment(s) will not be entered because:
 (a) they raise new issues that would require further consideration and/or search (see NOTE below);
 (b) they raise the issue of new matter (see Note below);
 (c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 (d) they present additional claims without cancelling a corresponding number of finally rejected claims.

NOTE: _____

3 Applicant's reply has overcome the following rejection(s): see attachment.
 4 Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
 5 The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: see attachment.
 6 The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
 7 For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____

Claim(s) objected to: _____

Claim(s) rejected: 1-3 and 5-20

Claim(s) withdrawn from consideration: _____

8 The drawing correction filed on _____ is a) approved or b) disapproved by the Examiner.

9 Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). 12/15/03.

10 Other: _____

Callie E. Shosho
 Primary Examiner
 Art Unit 1714

Attachment to Advisory Action

1. Applicants' amendment filed 1/9/04 has been fully considered. The amendment overcomes the 35 USC 102 rejection as set forth in paragraph 3 and the 35 USC 103 rejection as set forth in paragraph 5 of the office action mailed 7/14/03 and rejections of record utilizing Yatake et al. (U.S. 6,051,057).

However, the amendment is not successful in overcoming the 35 USC 103 rejections of record as set forth in paragraphs 6, i.e. JP 53140105 in view of Kitamura et al. (U.S. 6,498,222), 7, i.e. JP 53140105 in view of Kitamura et al. and further in view of Doi et al. (U.S. 6,378,999), 8, i.e. JP 53140105 in view of Ohta et al. (U.S. 6,211,265), and 9, i.e. JP 53140105 in view of Ohta et al. and further in view of Doi et al. (U.S. 6,378,999), of the office action mailed 7/14/03 for the following reasons.

Applicants argue that JP 53140105 is not a relevant reference against the present claims given that JP 53140105 is silent with respect to quick drying properties.

It is agreed that there is no disclosure in JP 53140105 of quick-drying properties and thus, no disclosure of quick-drying imparting agent as required in the present claims. However, this is why JP 53140105 is used in combination with either Kitamura et al. or Ohta et al. which each disclose the use of 1H-benzotriazole-1-methanol that is identical to quick-drying imparting agent utilized in the present invention. Although there is no disclosure in either Kitamura et al. or Ohta et al that 1H-benzotriazole-1-methanol functions as a quick-drying imparting agent, given that

Kitamura et al. and Ohta et al. each disclose benzotriazole compound identical to that presently claimed, it is clear that the benzotriazole would intrinsically possess quick-drying imparting properties.

Applicants also argue that while either Kitamura et al. or Ohta et al. disclose 1H-benzotriazole-1-methanol in ink, there is no disclosure that this compound is a quick-drying property imparting agent wherein the ink utilizes differences in solubility between the quick-drying property imparting agent in water and solvent to attain quick drying properties.

However, while Kitamura et al. disclose the use of 1H-benzotriazole-1-methanol to prevent nozzle clogging and Ohta et al. disclose the use of 1H-benzotriazole-1-methanol to prevent ink from drying at the tip of printer nozzle, it is noted that while these motivations may not be the same motivation for using 1H-benzotriazole-1-methanol as in the present invention, it is noted that obviousness under 103 is not negated because the motivation to arrive at the claimed invention as disclosed by the prior art does not agree with appellant's motivation. *In re Dillon*, 16 USPQ2d 1897 (Fed. Cir. 1990), *In re Tomlinson*, 150 USPQ 623 (CCPA 1996).

Applicants also argue that JP 53140105 is not a relevant reference against the present claims given that JP 53140105 utilizes high-boiling point solvent such as ethylene glycol monoethyl ether which is in direct contrast to the present claims which require the use of water-soluble solvent having boiling point lower than that of water.

However, it is noted that while JP 53140105 disclose the use of high boiling point solvent such as ethylene glycol monoethyl ether, this is but one of the solvents disclosed by JP

53140105. It is significant to note that JP 53140105 also discloses the use of solvent with boiling point less than water such as methyl ethyl ketone, acetone, ethanol, and propanol. Thus, absent evidence to the contrary, it would have been obvious to one of ordinary skill in the art to choose solvent, including that presently claimed with boiling point less than water, in the ink of JP 53140105, and thereby arrive at the claimed invention.

Applicants also argue that claim 22 of Kitamura et al. teach the use of solvent having lower vapor pressure than water which is in direct contrast to the present claims which require solvent with vapor pressure higher than that of water.

However, it is noted that claim 22 of Kitamura et al. also discloses the use of lower alcohols which have boiling point lower than water and thus meet the requirements of the present claims regarding the solvent.

Applicants also argue that Ohta et al. disclose the use of water-soluble solvent that has vapor pressure lower than that of water which is in direct contrast to the present claims that require solvent with vapor pressure greater than water.

It is agreed that Ohta et al. disclose the use of water-soluble solvent that has vapor pressure lower than that of water, which is why Ohta et al. is no longer applicable against the present claims as a primary reference. Ohta et al. is now only used in combination with JP 53140105 to teach the use of 1H-benzotriazole-1-methanol. It is the examiner's position that Ohta et al. is still a relevant reference against the present claims given that Ohta et al. is not used for its teaching of the presently claimed water-soluble solvent given that JP 53140105 already

teaches the use of such solvent. Rather, Ohta et al. is only used for its teaching of 1H-benzotriazole-1-methanol.

Applicants also argue that Ohta et al. do not disclose the use of fluorescent dye.

However, it is noted that only claims 13-15 require the use of fluorescent dye. Further, note that Ohta et al. is used as teaching reference, and therefore, it is not necessary for this secondary reference to contain all the features of the presently claimed invention, *In re Nievelt*, 482 F.2d 965, 179 USPQ 224, 226 (CCPA 1973), *In re Keller* 624 F.2d 413, 208 USPQ 871, 881 (CCPA 1981). Rather this reference teaches a certain concept, namely the use of 1H-benzotriazole-1-methanol in ink jet inks, and in combination with the primary reference, discloses the presently claimed invention.

Applicants also argue that Doi et al. is primarily drawn to pigment ink and do not disclose the use of dye that has solubility in water lower than solubility in water-soluble solvent to attain good drying properties as presently claimed.

However, while Doi et al. may prefer pigments, it is significant to note that Doi et al. also disclose the use of water-insoluble dyes that would clearly intrinsically possess solubility in water lower than solubility in water-soluble solvent. Further, even if Doi et al. did not possess dye identical to that presently claimed, note that Doi et al. is used as teaching reference, and therefore, it is not necessary for this secondary reference to contain all the features of the presently claimed invention, *In re Nievelt*, 482 F.2d 965, 179 USPQ 224, 226 (CCPA 1973), *In re Keller* 624 F.2d 413, 208 USPQ 871, 881 (CCPA 1981). Rather this reference teaches a

certain concept, namely surfactants utilized in ink jet inks, and in combination with the primary reference, discloses the presently claimed invention.



Callie E. Shosho
Primary Examiner
Art Unit 1714

CS
1/20/04